

IN THE CLAIMS:

1. (Currently Amended) A laser light source comprising:
a plurality of semiconductor lasers for emitting a plurality of laser beams; and
a hollow waveguide with a liquid sealed therein for propagating the plurality of laser beams; and
a cooling mechanism connected to the waveguide for circulating the liquid sealed in the waveguide and cooling the plurality of semiconductor lasers,
~~wherein~~ whereby the plurality of laser beams are emitted from one end face of the waveguide;
~~and the plurality of semiconductor lasers are arranged in a direction where spread angles of the laser beams are relatively small.~~

2. (Canceled)

3. (Previously Presented) The laser light source as defined in Claim 1 wherein a length L from the end face of the waveguide to a nearest light incident position satisfies a relational expression (1) as follows:

$$L \geq W / \tan(\sin^{-1}(\sin(\theta/2)/n))$$

wherein W is a width of the waveguide, n is a refractive index in the waveguide, and θ is a minimum beam spread angle of the semiconductor laser.

4. (Previously Presented) The laser light source as defined in Claim 1 wherein said waveguide comprises a step difference portion at which the cross-section area of the waveguide varies in a light propagating direction, and said plurality of semiconductor lasers are disposed on the step difference portion.
5. (Previously Presented) The laser light source as defined in Claim 4 wherein said waveguide comprises a plurality of step difference portions.
6. (Previously Presented) The laser light source as defined in Claim 1 wherein the semiconductor lasers which are arranged in one line along the direction where the spread angles of light beams emitted from the semiconductor lasers are relatively small are shifted from the semiconductor lasers in the other line in a light emission direction.
7. (Previously Presented) The laser light source as defined in Claim 6 wherein said waveguide comprises step portions at which the cross-section area of the waveguide varies stepwise in a light propagating direction, and said plurality of semiconductor lasers are disposed on the respective step portions.
8. (Previously Presented) The laser light source as defined in Claim 1 wherein said plurality of semiconductor lasers include at least two semiconductor lasers having different oscillation wavelengths, and

a maximum oscillation wavelength difference A (A : actual number) of the semiconductor lasers having different oscillation wavelengths satisfies $A \geq 1\text{nm}$.

9. (Previously Presented) The laser light source as defined in Claim 8 wherein said plurality of semiconductor lasers include at least three semiconductor lasers having different oscillation wavelengths, and intervals of adjacent oscillation wavelengths are substantially constant.

10. (Previously Presented) The laser light source as defined in Claim 8 wherein said maximum oscillation wavelength difference A satisfies $1\text{nm} \leq A \leq 30\text{nm}$.

11. (Previously Presented) The laser light source as defined in Claim 1 wherein output light intensities of the semiconductor lasers are approximately uniform.

12. (Previously Presented) The laser light source as defined in Claim 1 wherein said plurality of semiconductor lasers are multistriple lasers.

13. (Previously Presented) The laser light source as defined in Claim 1 wherein said plurality of semiconductor lasers are multistack lasers.

14. (Previously Presented) A laser light source as defined in Claim 1 wherein said plurality of semiconductor lasers are arranged to constitute at least one laser array.

15-16 (Canceled).

17. (Currently Amended) A two-dimensional image forming device including a plurality of semiconductor lasers, a spatial light modulator for modulating light outputted from a laser light source, and a lighting optical system for illuminating the output light from the laser source to the spatial light modulator, wherein

said laser light source comprises:

a plurality of semiconductor lasers for emitting a plurality of laser beams; and

a hollow waveguide with a liquid sealed therein for propagating the plurality of laser beams; and

a cooling mechanism connected to the waveguide for circulating the liquid sealed in the waveguide and cooling the plurality of semiconductor lasers,

~~wherein~~ whereby the plurality of laser beams is emitted from one end face of the waveguide;

~~wherein the plurality of semiconductor lasers are arranged in a direction where spread angles of the laser beams are relatively small.~~

18. (Previously Presented) The two-dimensional image forming device as defined in Claim 17 further including a projection optical system for projecting output light from the spatial light modulator.

19. (New) The laser light source according to claim 1, wherein the plurality of semiconductor lasers are arranged in a direction where spread angles of the laser beams are relatively small.